# Cumulative Indexes

## Contributing Authors, Volumes 51-61

#### A

Abrams SR, 61:651–79
Ainsworth EA, 55:557–94
Ait-ali T, 52:67–88
Alban C, 51:17–47
Albersheim P, 55:109–39
Allen GJ, 52:627–58
Alonso-Blanco C, 55:141–72
Amasino RM, 56:491–508
Apel K, 55:373–99
Ariizumi T, 59:387–415
Arruda P, 57:383–404
Assmann SM, 58:219–47
Ayers RA, 61:21–47

#### H

Bae G, 59:281–311
Baena-Gonzalez E, 57:675–709
Bailey-Serres J, 59:313–39
Bais HP, 57:233–66
Baker NR, 59:89–113
Baldwin IT, 53:299–328
Ball SG, 54:207–33
Balmer Y, 56:187–220
Baluška F, 51:289–322
Bandyopadhyay A, 56:221–51
Banks JA, 60:223–37
Barlow PW, 51:289–322
Bartel B, 57:19–53
Bartel DP, 57:19–53
Baucher M, 54:519–46

Baudry A, 57:405-30 Bauer CE, 53:503-21 Baxter I, 59:709-33 Beardall J, 56:99-131 Bender J, 55:41-68 Benjamins R, 59:443-65 Benson AA, 53:1-25 Benveniste P, 55:429-57 Benzanilla M, 57:497-520 Bergmann DC, 58:163-81 Berthold DA, 54:497-517 Besson-Bard A, 59:21-39 Bick J-A, 51:141-66 Birnbaum KD, 57:451-75 Bloom A, 60:455-84 Blumwald E, 61:443-62 Boerjan W, 54:519-46 Bogdanove AJ, 54:23-61 Böhmer M, 61:561-91 Bohnert HJ, 51:463-99 Boldt R, 57:805-36 Boller T, 60:379-406 Bomblies K, 61:109-24 Boonsirichai K, 53:421-47 Borecky J, 57:383-404 Borisjuk L, 56:253-79 Boston RS, 52:785-816 Bou J, 57:151-80 Bouché N, 56:435-66 Bowler C, 53:109-30 Bowles D, 57:567-97 Bowman JL, 59:67-88 Bressan RA, 51:463-99

Breton G, 55:263–88 Briat J-F, 54:183–206 Briggs WR, 61:1–20 Brown D, 58:407–33 Brown ML, 54:403–30 Brownlee C, 55:401–27 Browse J, 60:183–205 Buchanan BB, 56:187–220 Buckler ES IV, 54:357–74 Burger M, 59:341–63

#### C

Caboche M, 57:405-30 Callis J, 59:467-89 Cande W, 57:267-302 Cao X, 61:395-420 Carroll A, 60:165-82 Cavagnaro TR, 59:341-63 Chaimovich H, 57:383-404 Chen R, 53:421-47 Chen Y-H, 61:89-108 Chen ZJ, 58:377-406 Cheung AY, 59:547-72 Chevalier D, 60:67-91 Chickarmane V, 61:65-87 Chitnis PR, 52:593-626 Chiu C-C, 61:157-80 Choi G, 59:281-311 Chory J, 57:739-59 Christiansen J, 52:269-95 Christie JM, 58:21-45 Cobbett C, 53:159-82

Comai L, 54:375–401 Conklin PL, 52:437–67 Conn EE, 59:1–19 Coupland G, 59:573–94 Cournac L, 53:523–50 Cove D, 57:497–520 Covshoff S, 61:181–207 Croteau R, 52:689–724 Cuccovia I, 57:383–404 Cui X, 61:395–420 Cunha A, 61:65–87 Curie C, 54:183–206 Curran AC, 51:433–62 Cutler SR, 61:651–79

### D

Darvill AG, 55:109-39 Davenport RJ, 53:67-107 Davies JP, 51:141-66 Dean DR, 52:269-95 Debeaujon I, 57:405-30 Deeks MJ, 57:109-25 de Godoy Maia I, 57:383-404 Delhaize E, 52:527-60 DellaPenna D, 57:711-38 Demidchik V, 53:67-107 Deng X-W, 54:165-82 de Souza MP, 51:401-32 Dewitte W, 54:235-64 Dickerson J, 57:335-59 Dietz K-S, 54:93-107 Diner BA, 53:551-80 Dixon RA, 55:225-61 Dodd AN, 61:593-620 Doi M, 58:219-47 Douce R, 51:17-47 Douglas CI, 58:435-58 Downie JA, 59:519-46 Dubini A, 58:71-91

#### E

Edwards GE, 55:173–96 Ehrhardt DW, 57:859–75 Elliott KA, 53:131–58 Elthon TE, 55:23–39 Emes MJ, 51:111–40 Evans LT, 54:1–21, 307–28 Evans TC Jr, 56:375–92 Evron Y, 51:83–109

#### F

Facchini PI, 52:29-66: 59:735-69 Fagard M, 51:167-94 Falciatore A. 53:109-30 Felix G, 60:379-406 Feussner I, 53:275-97 Finkelstein R. 59:387-415 Finkelstein RR, 61:651-79 Fischer BB, 60:239-60 Fischer RL, 56:327-51 Fletcher JC, 53:45-66 Flint-Garcia SA, 54:357-74 Floyd SK, 59:67-88 Flügge U-I, 56:133-64 Forde BG, 53:203-24 Fornara F, 59:573-94 Foyer CH, 60:455-84 Franceschi VR, 55:173-96; 56:41-71 Freeling M, 60:433-53; 61:349-72 Fricker M, 57:79-107 Fromm H, 56:435-66 Frommer WB, 55:341-71 Fujioka S, 54:137-64 Fukayama H, 52:297-314 Furbank RT. 52:297-314 Furumoto T, 55:69-84 Furuya M, 55:1-21

#### G

Galbraith DW, 57:451-75 Galili G, 53:27-43 Gallois P, 58:407-33 Galway ME, 54:691-722 Gandotra N, 57:181-201 Gang DR, 56:301-25 García-Mata C, 54:109-36 Gelvin SB, 51:223-56 Gershenzon J, 57:303-33 Ghirardi ML, 58:71-91 Gibbs SP, 57:1-17 Gilroy S, 57:233-66 Giordano M, 56:99-131 Giovannoni J, 52:725-49 Goldsbrough P, 53:159-82 Goldschmidt-Clermont M, 61:125-55 Gonzalez-Carranza ZH, 53:131-58

Gould SB, 59:491–517 Graham IA, 59:115–42 Graziano M, 54:109–36 Grossman A, 52:163–210 Grossniklaus U, 54:547–74 Grotewold E, 57:761–80 Guan C, 53:421–47 Gubler F, 55:197–223 Gutu A, 57:127–50

#### H

Halkier BA, 57:303-33 Hamant O, 57:267-302 Hanson AD, 52:119-37 Hanson MR, 61:125-55 Hansson A, 58:459-81 Harberd NP, 52:67-88 Hardtke CS, 58:93-113 Harmer SL, 60:357-77 Harmon A, 55:263-88 Harper JF, 51:433-62; 55:263-88 Harries P. 57:497-520 Harris EH, 52:363-406 Hasegawa PM, 51:463-99 Hegemann P, 59:167-89 Henderson JHM, 52:1-28 Henikoff S, 54:375-401 Hetherington AM, 55:401-27 Hibberd JM, 61:181-207 Higuchi M, 61:373-93 Hirt H, 55:373-99 Hoekenga OA, 55:459-93 Holbrook NM, 57:361-81 Holstein SE, 56:221-51 Hörtensteiner S, 57:55-77 Hotton SK, 59:467-89 Howe GA, 59:41-66 Hsieh T-F, 56:327-51 Hu H, 61:561-91 Hudson A, 51:349-70 Hugouvieux V, 52:627-58 Huner NPA, 54:329-55 Hussey PJ, 57:109-25 Hwang I, 51:433-62

#### 1

Iba K, 53:225-45 Ishida T, 59:365-86 Ishii T, 55:109-39 Isogai A, 56:467–89 Izui K, 55:69–84

J

Jackson LE, 59:341-63 Jacquot J-P, 51:371-400: 59:143-66 Jander G, 59:41-66 Jansson S, 58:435-58 Jenkins GI, 60:407-31 Jensen PE, 58:459-81 Jetter R, 59:683-707 Jhurreea D, 59:417-41 Job D, 51:17-47 Johnson EA, 51:83-109 Jones AM, 58:249-66 Iones DL, 52:527-60 Jones-Rhoades MW, 57:19-53 Jung H, 57:739-59 Jürgens G, 56:281-99

#### K

Kagawa T, 54:455-68 Kai Y. 55:69-84 Kakimoto T, 54:605-27 Kato N. 55:537-54 Keasling ID, 60:335-55 Kehoe DM, 57:127-50 Kessler A, 53:299-328 Ketelaar T, 57:109-25 Kim HI, 58:115-36 Kim T-H, 61:561-91 Kim T-W, 61:681-704 King KE, 52:67-88 King RW, 54:307-28 Kinney AJ, 52:335-61 Kinoshita T, 58:219-47 Kirby I, 60:335-55 Kleine T, 60:115-38 Kliebenstein D, 60:93-114 Kochian L, 55:459-93 Koltunow AM, 54:547-74 Komeda Y, 55:521-35 Kondou Y, 61:373-93 Koornneef M, 55:141-72 Kossmann J, 61:209-34 Koussevitzky S, 57:739-59 Kramer EM, 60:261-77 Krämer U, 61:517-34 Kudla J, 61:593-620

Kunst L, 59:683–707 Kurata T, 59:365–86 Kwak JM, 52:627–58 Kyozuka J, 53:399–419

L Lagarias J, 57:837-58 Lahner B, 59:709-33 Lalonde S, 55:341-71 Lam E, 55:537-54 Lamattina L, 54:109-36 Larkin JC, 54:403-30 Leister D. 60:115-38 Lemaire SD, 59:143-66 Lemaux PG, 59:771-812; 60:511-59 Lepiniec L, 57:405-30 Leuchtmann A. 55:315-40 Leustek T, 51:141-66 Levser O, 53:377-98; 56:353-74 Li H-m, 61:157-80 Li I. 59:253-79 Li Z, 60:239-60 Liang F, 51:433-62 Libourel IGL, 59:625-50 Lim E, 57:567-97 Lim PO. 58:115-36 Lin C. 54:469-96 Lisch D, 60:43-66 Liu C, 61:395-420 Liu T, 57:181-201 Loewus FA, 52:437-67 Long SP, 55:557-94; 61:235-61 Lough TJ, 57:203-32 Lu F, 61:395-420 Luan S, 54:63-92 Lucas WJ, 57:203-32 Luu D-T, 59:595-624

#### M

Ma H, 56:393–434; 57:267–302 Maeshima M, 52:469–97 Maier UG, 60:115–38 Maliga P, 55:289–313 Maness P-C, 58:71–91 Marion-Poll A, 56:165–85 Martin GB, 54:23–61 Martin MN, 51:141–66 Masson PH, 53:421–47 Matsubayashi Y, 57:649–74

Matsuda F. 61:463-89 Matsui M, 61:373-93 Matsumura H. 55:69-84 Matsuoka M. 52:297-314: 58:183-98 Maurel C, 59:595-624 McAndrew RS, 52:315-33 McCarty RE, 51:83-109 McClung CR, 52:139-62 McCormick KP, 60:305-33 McCurdy DW, 54:431-54 McFadden GI, 59:491-517 McGrath SP, 61:535-59 McSteen P, 56:353-74 Meharg AA, 61:535-59 Meijer HJG, 54:265-306 Meija D, 60:305-33 Mendel RR, 57:623-47 Meyerowitz EM, 61:65-87 Meyers BC, 60:305-33 Miernyk JA, 53:357-75 Miller AJ, 52:659-88 Mittler R, 61:443-62 Miyao M, 52:297-314 Mizutani M, 61:291-315 Moffat K, 61:21-47 Möglich A, 61:21-47 Mok DWS, 52:89-118 Mok MC, 52:89-118 Møller IM, 52:561-91; 58:459-81 Mooney BP, 53:357-75 Moore G, 51:195-222 Moore I. 57:79-107 Morell MK, 54:207-33 Morita MT. 61:705-20 Morris ER, 60:67-91 Motoyuki A, 58:183-98 Mudgett M, 56:509-31 Mundy J, 61:621-49 Munnik T, 54:265-306 Munns R, 59:651-81 Murphy AS, 56:221-51 Murray JAH, 54:235-64

#### N

Nagy F, 53:329-55 Nakajima M, 58:183-98 Nakata PA, 56:41-71 Nam HG, 58:115-36 Nambara E, 56:165-85 Nandety RS, 60:305-33 Napier JA, 58:295–319 Nelson N, 57:521–65 Nelson T, 57:181–201 Nesi N, 57:405–30 Neuhaus HE, 51:111–40 Nielsen K, 52:785–816 Nishimura N, 61:561–91 Niyogi KK, 60:239–60 Noctor G, 60:455–84 Nott A, 57:739–59

#### O

Oaks A, 51:1–16 Offler CE, 54:431–54 Ohta D, 61:291–315 Okada K, 59:365–86 Oldroyd GED, 59:519–46 Olsen O-A, 52:233–67 O'Neill MA, 55:109–39 Oparka KJ, 51:323–47 Öquist G, 54:329–55 Ort DR, 55:557–94; 61:235–61 Osmont KS, 58:93–113 Osteryoung KW, 52:315–33

#### P

Pagnussat G, 54:109-36 Palmgren MG, 52:817-45 Paterson AH, 61:349-72 Patrick IW, 54:431-54 Paul MJ, 59:417-41 Peer WA, 56:221-51 Peltier G, 53:523-50 Perry LG, 57:233-66 Petersen M, 61:621-49 Pilon-Smits E, 56:15-39 Piñeros MA, 55:459-93 Pogson B, 57:711-38 Poppenberger B, 57:567-97 Posewitz MC, 58:71-91 Pourcel L, 57:405-30 Powles SB, 61:317-47 Pradhan S, 56:375-92 Prat S, 57:151-80 Primavesi LF, 59:417-41 Pugin A, 59:21-39

#### Q

Quatrano R, 57:497-520 Queval G, 60:455-84

#### R

Rademacher W, 51:501-31 Ralph J, 54:519-46 Randall DD, 53:357-75 Rappaport F, 53:551-80 Rasmusson AG, 55:23-39 Ratcliffe RG, 52:499-526 Raven JA, 56:99-131 Rea PA, 58:347-75 Reddy AS, 58:267-94 Reeves W, 59:387-415 Rhee SY, 57:335-59 Richards DE, 52:67-88 Roberts JA, 53:131-58 Roberts K. 58:137-61 Robertson D, 55:495-519 Rockwell NC, 57:837-58 Rodriguez PL, 61:651-79 Rodríguez-Falcón M, 57:151-80 Roeder AHK, 61:65-87 Rogers A, 55:557-94 Roje S, 52:119-37 Rolland F. 57:675-709 Rouhier N, 59:143-66 Routaboul J, 57:405-30 Ruiz-Ferrer V, 60:485-510 Runions J, 57:79-107 Ryan PR, 52:527-60

#### S

Sack FD, 58:163-81 Sack L, 57:361-81 Saito K, 61:463-89 Sakagami Y, 57:649-74 Sakakibara H. 57:431-49 Sakamoto W, 57:599-621 Salt DE, 59:709-33 Salvucci ME, 53:449-75 Samuels L, 59:683-707 Sanders D, 61:593-620 Santa Cruz S, 51:323-47 Santoni V, 59:595-624 Sato Y, 54:455-68 Schachtman DP, 58:47-69 Schaefer DG, 53:477-501 Schäfer E, 53:329-55 Schardl CL, 55:315-40 Scheller HV, 61:263-89 Scheres B, 59:443-65 Schiefelbein J, 54:403-30

Schroeder II. 52:627-58: 61:561-91 Schuler MA, 54:629-67 Schulze WX, 61:491-516 Schürmann P. 51:371-400 Schurr U, 60:279-304 Schwacke R. 56:133-64 Schwarz G. 57:623-47 Seefeldt LC, 52:269-95 Seibert M, 58:71-91 Seifert GI, 58:137-61 Sentenac H, 54:575-603 Serino G. 54:165-82 Sessa G, 54:23-61 Shachar-Hill Y, 52:499-526; 59:625-50 Shalitin D, 54:469-96 Sharkey TD, 52:407-36 Shaw SL, 57:859-75 Sheen J, 57:675-709 Shi D-Q, 61:89-108 Shikanai T, 58:199-217 Shimamoto K, 53:399-419 Shimazaki K-i, 58:219-47 Shin R, 58:47-69 Shinozaki K, 57:781-803 Shirasu K, 60:139-64 Sibout R, 58:93-113 Silk WK, 60:279-304 Simon SA, 60:305-33 Smalle J, 55:555-90 Smeekens S, 51:49-81 Smirnoff N, 52:437-67 Smith AM, 56:73-97: 61:209-34 Smith SM, 56:73-97 Snedden WA, 56:435-66 Soltis DE, 60:561-88 Soltis PS, 60:561-88 Somerville C, 60:165-82 Sonnewald U, 57:805-36 Soole KL, 55:23-39 Spiering MJ, 55:315-40 Spreitzer RJ, 53:449-75 Staiger CJ, 51:257-88 Starlinger P, 56:1-13 Steber C, 59:387-415 Stenmark P. 54:497-517 Stern DB, 61:125-55 Steudle E, 52:847-75 Stitt M, 57:805-36 Su Y, 57:837-58

Suarez Rodriguez MC. 61:621-49 Sun T-p. 55:197-223 Sung S, 56:491-508 Sze H, 51:433-62

#### T

Takahashi H. 52:163-210 Takayama S, 56:467-89 Talbot MJ, 54:431-54 Tanaka A, 58:321-46 Tanaka R, 58:321-46 Tang H, 61:349-72 Tarr PT, 61:65-87 Tarun AS, 51:401-32 Tausta SL, 57:181-201 Temple BRS, 58:249-66 Terry N, 51:401-32 Tester M, 53:67-107: 59:651-81 Thornsberry JM, 54:357-74 Tobin C, 61:65-87 Trapp S, 52:689-724 Tsukaya H, 57:477-96 Turck F, 59:573-94 Turgeon R, 60:207-21 Turner S, 58:407-33

#### U

Ueguchi-Tanaka M, 58:183-98 Ulvskov P. 61:263-89 Usadel B, 61:491-516

#### V

Vaistij FE, 57:567-97 van der Hoorn RAL, 59:191-223 Vaucheret H, 51:167-94

Vercesi A. 57:383-404 Verdoucq L, 59:595-624 Verma DPS, 52:751-84 Véry A-A, 54:575-603 Vierstra RD, 55:555-90 Vivanco JM, 57:233-66 Voelker T, 52:335-61 Voesenek LACJ, 59:313-39 Voinnet O, 60:485-510 von Wettstein D, 58:1-19 Voznesenskaya EE, 55:173-96 Vreugdenhil D, 55:141-72

#### W

Wada M, 54:455-68 Wada T. 59:365-86 Wakao S, 60:239-60 Walker IC, 60:67-91 Waller RF, 59:491-517 Walter A, 60:279-304 Waner D, 52:627-58 Wang X, 52:211-31; 61:349-72 Wang Y, 59:253-79 Wang Z-Y, 61:681-704 Wasteneys GO, 54:691-722 Wasternack C, 53:275-97 Watanabe K, 55:537-54 Weber APM, 56:133-64 Weber H, 56:253-79 Weckwerth W, 54:669-89 Weir TL, 57:233-66 Wendehenne D. 59:21-39 Werck-Reichhart D, 54:629-67 Williams LE, 52:659-88 Winkel BSJ, 55:85-107 Wipf D, 55:341-71 Wobus U, 56:253-79 Wolf S, 60:207-21 Wu H-m, 59:547-72

### X

Xing Y, 61:421-42 Xiong J, 53:503-21 Xu D, 57:335-59 Xu M-O, 56:375-92 Xue Y, 60:21-42

Yamaguchi S, 59:225-51 Yamaguchi-Shinozaki K, 57:781-803 Yang W-C, 61:89-108 Yang X, 61:21-47 Ye Z-H, 53:183-202 Yeh S, 52:407-36 Yellin A, 56:435-66 Yocum CF, 57:521-65 Yokota T, 54:137-64 Yu I. 58:71-91 Yu Q, 61:317-47

#### Z

Zayed AM, 51:401-32 Zeeman SC, 56:73-97; 61:209-34 Zeevaart JAD, 60:1-19 Zeng J, 60:305-33 Zhai J, 60:305-33 Zhang Q, 61:421-42 Zhang Y, 59:417-41; 60:21-42 Zhao F-J, 61:535-59 Zhao Y, 61:49-64 Zhao Z, 60:21-42 Zhu J-K, 51:463-62; 53:247-73 Zhu X-G, 61:235-61 Ziegler J, 59:735-69 Zrenner R, 57:805-36

### Chapter Titles, Volumes 51-61

**Prefatory Chapters** 

#### Fifty Years of Plant Science Was There Really No Place for a Woman? A Oaks 51:1-16 Fifty Years as a Plant Physiologist JHM Henderson 52:1-28 Paving the Path AA Benson 53:1-25 Conjectures, Refutations, and Extrapolations LT Evans 54:1-21 An Unforeseen Voyage to the World of Phytochromes M Furuva 55:1-21 Fifty Good Years P Starlinger 56:1-13 Looking at Life: From Binoculars to the Electron Microscope SP Gibbs 57:1-17 From Analysis of Mutants to Genetic Engineering D von Wettstein 58:1-19 EE Conn Our Work with Cyanogenic Plants 59:1-19 My Journey From Horticulture to Plant Biology JAD Zeevaart 60:1-19 A Wandering Pathway in Plant Biology: From Wildflowers to Phototropins to **Bacterial Virulence** WR Briggs 61:1-20 **Biochemistry and Biosynthesis** Biotin Metabolism in Plants C Alban, D Job, 51:17-47 R Douce The Chloroplast ATP Synthase: RE McCarty, Y Evron, A Rotary Enzyme? 51:83-109 **EA Johnson** Nonphotosynthetic Metabolism in Plastids MJ Emes, 51:111-40 HE Neuhaus Pathways and Regulation of Sulfur Metabolism Revealed Through Molecular Genetic Studies T Leustek. 51:141-66

MN Martin, J Bick, JP Davies

Diversity and Regulation of Plant Ca <sup>2+</sup>		
Pumps: Insights from Expression in Yeast	H Sze, F Liang, I Hwang, AC Curran, JF Harper	51:433–62
Growth Retardants: Effects on		
Gibberellin Biosynthesis and Other		
Metabolic Pathways Alkaloid Biosynthesis in Plants: Biochemistry, Cell Biology, Molecular Regulation, and	W Rademacher	51:501-31
Metabolic Engineering Applications	PJ Facchini	52:29-66
Cytokinin Metabolism and Action	DWS Mok, MC Mok	52:89-118
One-Carbon Metabolism in Higher Plants	AD Hanson, S Roje	52:119-37
Plant Phospholipases	X Wang	52:211-31
Mechanistic Features of the Mo-Containing Nitrogenase	J Christiansen, DR Dean, LC Seefeldt	52:269-95
Molecular Engineering of C <sub>4</sub> Photosynthesis	M Matsuoka, RT Furbank, H Fukayama, M Miyao	52:297-314
Isoprene Emission from Plants	TD Sharkey, S Yeh	52:407-36
Biosynthesis of Ascorbic Acid in Plants:		
A Renaissance	N Smirnoff, PL Conklin, FA Loewus	52:437-67
Tonoplast Transporters: Organization		
and Function Plant Mitochondria and Oxidative Stress:	M Maeshima	52:469–97
Electron Transport, NADPH Turnover, and Metabolism of Reactive		
Oxygen Species	IM Møller	52:561-91
Photosystem I: Function and Physiology	PR Chitnis	52:593-626
Guard Cell Signal Transduction	JI Schroeder, GJ Allen, V Hugouvieux, JM Kwak, D Waner	52:627–58
Transporters Responsible for the Uptake and		
Partitioning of Nitrogenous Solutes	LE Williams, AJ Miller	52:659-88
Ribosome-Inactivating Proteins:		
A Plant Perspective	K Nielsen, RS Boston	52:785-816
Plant Plasma Membrane H+-ATPases:	110.01	
Powerhouses for Nutrient Uptake New Insights into the Regulation and	MG Palmgren	52:817-45
Functional Significance of Lysine	C Calili	52.27 42
Metabolism in Plants Nonselective Cation Channels in Plants	G Galili V Demidchik, RJ Davenport, M Tester	53:27-43 53:67-107

The Lipoxygenase Pathway	I Feussner, C Wasternack	53:275-97
The Complex Fate of $\alpha$ -Ketoacids	BP Mooney, JA Miernyk, DD Randall	53:357-75
Rubisco: Structure, Regulatory Interactions,	DD Kandali	
and Possibilities for a Better Enzyme	RJ Spreitzer, ME Salvucci	53:449-75
Chlororespiration Structure, Dynamics, and Energetics of the Primary Photochemistry of Photosystem II	G Peltier, L Cournac	53:523-50
of Oxygenic Photosynthesis	BA Diner, F Rappaport	53:551-80
Plant Peroxiredoxins Biosynthesis and Metabolism of	K-J Dietz	54:93-107
Brassinosteroids From Bacterial Glycogen to Starch: Understanding the Biogenesis of the Plant	S Fujioka, T Yokota	54:137–64
Starch Granule Membrane-Bound Diiron Carboxylate	SG Ball, MK Morell	54:207-33
Proteins	DA Berthold, P Stenmark	54:497-517
Lignin Biosynthesis	W Boerjan, J Ralph, M Baucher	54:519-46
Alternative NAD(P)H Dehydrogenases		
of Plant Mitochondria	AG Rasmusson, KL Soole, TE Elthon	55:23–39
Phosphoenolpyruvate Carboxylase: A New Era of Structural Biology	K Izui, H Matsumura,	55:69-84
or outstand protogy	T Furumoto, Y Kai	22107 01
Metabolic Channeling in Plants Rhamnogalacturonan II: Structure and Function of a Borate Cross-Linked Cell	BSJ Winkel	55:85-107
Wall Pectic Polysaccharide	MA O'Neill, T Ishii, P Albersheim, AG Darvill	55:109–39
Single-Cell (Verse) Peredicates the	CE E tours	55:173-96
Dual-Cell (Kranz) Paradigm	GE Edwards, VR Franceschi, EE Voznesenskaya	33:1/3-90
Phytoestrogens Decoding Ca <sup>2+</sup> Signals Through Plant	RA Dixon	55:225-61
Protein Kinases	JF Harper, G Breton, A Harmon	55:263-88
Transport Mechanisms for Organic Focus of Carbon and Nitrogen Between Source	CLI-1 DUE	EE 340 74
and Sink	S Lalonde, D Wipf, WB Frommer	55:341-71
The Generation of Ca <sup>2+</sup> Signals in Plants	AM Hetherington, C Brownlee	55:401-27
Biosynthesis and Accumulation of Sterols	P Benveniste	55:429-57

The Ubiquitin 26S Proteasome		
Proteolytic Pathway	J Smalle, RD Vierstra	55:555-90
Starch Degradation	AM Smith, SC Zeeman, SM Smith	56:73-97
Redox Regulation: A Broadening Horizon	BB Buchanan, Y Balmer	56:187-220
Molecular Physiology of Legume Seed		
Development	H Weber, L Borisjuk, U Wobus	56:253-79
Evolution of Flavors and Scents	DR Gang	56:301-25
Plant-Specific Calmodulin-Binding Proteins	N Bouché, A Yellin, WA Snedden, H Fromm	56:435–66
Chlorophyll Degradation During Senescence	S Hörtensteiner	57:55-77
Biology and Biochemistry of Glucosinolates	BA Halkier, J Gershenzon	57:303-33
Cytokinins: Activity, Biosynthesis,		
and Translocation	H Sakakibara	57:431-49
Structure and Function of Photosystems	NYNY I	55 531 45
I and II	N Nelson, CF Yocum	57:521–65
Glycosyltransferases of Lipophilic Small Molecules	D. D I F. V. I :	57.547.07
Small Molecules	D Bowles, E-K Lim, B Poppenberger, FE Vaistij	57:567–97
Molybdenum Cofactor Biosynthesis and		
Molybdenum Enzymes	G Schwarz, RR Mendel	57:623-47
Vitamin Synthesis in Plants: Tocopherols		
and Carotenoids	D DellaPenna, B Pogson	57:711–38
The Genetics and Biochemistry		
of Floral Pigments	E Grotewold	57:761-80
Pyrimidine and Purine Biosynthesis and		
Degradation in Plants	R Zrenner, M Stitt, U Sonnewald, R Boldt	57:805–36
Phytochrome Structure and		
Signaling Mechanisms	NC Rockwell, Y-S Su, JC Lagarias	57:837–58
Phototropin Blue-Light Receptors	JM Christie	58:21-45
Nutrient Sensing and Signaling: NPKS	DP Schachtman.	58:47-69
Truthent belong ind togening.	R Shin	P.0.1.1
Hydrogenases and Hydrogen Photoproduction		
in Oxygenic Photosynthetic Organisms	ML Ghirardi,	58:71-91
	MC Posewitz,	
	P-C Maness,	
	A Dubini,	
	J Yu, M Seibert	

Gibberellin Receptor and Its Role in		
Gibberellin Signaling in Plants	M Ueguchi-Tanaka, M Nakajima,	58:183-98
	A Motoyuki, M Matsuoka	
The Production of Unusual Fatty Acids in	IVI IVIAISUOKA	
Transgenic Plants	JA Napier	58:295-319
Tetrapyrrole Biosynthesis in Higher Plants	R Tanaka, A Tanaka	58:321-46
Plant ATP-Binding Cassette Transporters	PA Rea	58:347-75
Oxidative Modifications to Cellular		
Components in Plants	IM Møller, PE Jensen, A Hansson	58:459-81
Seed Storage Oil Mobilization	IA Graham	59:115-42
The Role of Glutathione in Photosynthetic Organisms: Emerging Functions for		
Glutaredoxins and Glutathionylation	N Rouhier,	59:143-66
	SD Lemaire, J-P Jacquot	
Plant Proteases: From Phenotypes to	2 2 1	
Molecular Mechanisms	RAL van der Hoorn	59:191-223
Gibberellin Metabolism and its Regulation	S Yamaguchi	59:225-51
Decoding of Light Signals by Plant		
Phytochromes and Their Interacting		
Proteins	G Bae, G Choi	59:281-311
Trehalose Metabolism and Signaling	MJ Paul, LF Primavesi, D Jhurreea, Y Zhang	59:417-41
Auxin: The Looping Star in Plant	i Znang	
Development	R Benjamins,	59:443-65
2 Control Principle	B Scheres	377713 03
Regulation of Cullin RING Ligases	SK Hotton, J Callis	59:467-89
Sealing Plant Surfaces: Cuticular Wax		
Formation by Epidermal Cells	L Samuels, L Kunst, R Jetter	59:683-707
Alkaloid Biosynthesis: Metabolism and		
Trafficking	J Ziegler, PJ Facchini	59:735-69
14-3-3 and FHA Domains Mediate		
Phosphoprotein Interactions	D Chevalier, ER Morris, JC Walker	60:67–91
Cellulosic Biofuels	A Carroll,	60:165-82
	C Somerville	
Jasmonate Passes Muster: A Receptor and		
Targets for the Defense Hormone	J Browse	60:183-205
Biosynthesis of Plant Isoprenoids: Perspectives		
for Microbial Engineering	J Kirby, JD Keasling	60:335-55
Photorespiratory Metabolism: Genes,		
Mutants, Energetics, and Redox Signaling	CH Foyer, A Bloom, G Queval, G Noctor	60:455–84

Structure and Function of		
Plant Photoreceptors	A Möglich, X Yang, RA Ayers, K Moffat	61:21-47
Auxin Biosynthesis and Its Role	K Monat	
in Plant Development	Y Zhao	61:49-64
Starch: Its Metabolism, Evolution, and	Lando	01.17-01
Biotechnological Modification in Plants	SC Zeeman, J Kossmann, AM Smith	61:209–34
Hemicelluloses	HV Scheller, P Ulvskov	61:263-89
Diversification of P450 Genes During Land		
Plant Evolution	M Mizutani, D Ohta	61:291–315
Genetics and Molecular Biology		
(Trans)Gene Silencing in Plants:		
How Many Mechanisms?	M Fagard,	51:167-94
	H Vaucheret	
Cereal Chromosome Structure, Evolution,	0.11	
and Pairing	G Moore	51:195-222
Chlamydomonas as a Model Organism	EH Harris	52:363-406
Molecular Genetics of Auxin Signaling Rice as a Model for Comparative Genomics	O Leyser	53:377-98
of Plants	K Shimamoto, J Kyozuka	53:399-419
A New Moss Genetics: Targeted Mutagenesis		
in Physcomitrella patens	DG Schaefer	53:477-501
Complex Evolution of Photosynthesis	J Xiong, CE Bauer	53:503-21
The COP9 Signalosome: Regulating Plant Development Through the Control of		
Proteolysis	G Serino, X-W Deng	54:165-82
Structure of Linkage Disequilibrium in Plants	SA Flint-Garcia, JM Thornsberry, ES Buckler IV	54:357-74
Functional Genomics of P450s	MA Schuler, D Werck-Reichhart	54:629-67
DNA Methylation and Epigenetics Naturally Occurring Genetic Variation	J Bender	55:41–68
in Arabidopsis Thaliana	M Koornneef, C Alonso-Blanco, D Vreugdenhil	55:141-72
Plastid Transformation in Higher Plants	P Maliga	55:289-313
Visualizing Chromosome	0	
Structure/Organization	E Lam, N Kato, K Watanabe	55:537-54
Biology of Chromatin Dynamics	T-F Hsieh, RL Fischer	56:327-51
Self-Incompatibility in Plants	S Takayama, A Isogai	56:467-89

MicroRNAs and Their Regulatory Roles		
in Plants	MW Jones-Rhoades, DP Bartel, B Bartel	57:19-53
Genetics of Meiotic Prophase I in Plants	O Hamant, H Ma, WZ Cande	57:267-302
Genetics and Biochemistry of Seed Flavonoids	L Lepiniec, I Debeaujon, J-M Routaboul,	57:405-30
•	A Baudry, L Pourcel, N Nesi, M Caboche	
Mosses as Model Systems for the Study		
of Metabolism and Development	D Cove, M Benzanilla, P Harries, R Quatrano	57:497–520
Cyclic Electron Transport Around	ar & marine	
Photosystem I: Genetic Approaches Alternative Splicing of Pre-Messenger RNAs	T Shikanai	58:199-217
in Plants in the Genomic Era Genetic and Epigenetic Mechanisms for Gene Expression and Phenotypic Variation in	ASN Reddy	58:267–94
Plant Polyploids	ZI Chen	58:377-406
Plastid Evolution	SB Gould, RF Waller, GI McFadden	59:491–517
Genetically Engineered Plants and Foods:		
A Scientist's Analysis of the Issues (Part I) Roles of Proteolysis in Plant	PG Lemaux	59:771–812
Self-Incompatibility	Y Zhang, Z Zhao, Y Xue	60:21-42
Epigenetic Regulation of Transposable		
Elements in Plants	D Lisch	60:43-66
Quantitative Genomics: Analyzing Intraspecific Variation Using Global Gene		
Expression Polymorphisms or eQTLs DNA Transfer From Organelles to the Nucleus: The Idiosyncratic Genetics of	D Kliebenstein	60:93-114
Endosymbiosis	T Kleine, UG Maier, D Leister	60:115-38
Selaginella and 400 Million Years of Separation Bias in Plant Gene Content Following Different Sorts of Duplication: Tandem, Whole-Genome, Segmental, or	JA Banks	60:223–38
by Transposition Roles of Plant Small RNAs in Biotic Stress	M Freeling	60:433-53
Responses	V Ruiz-Ferrer, O Voinnet	60:485-510
Genetically Engineered Plants and Foods:		
A Scientist's Analysis of the Issues (Part II)	PG Lemaux	60:511-59
Chloroplast RNA Metabolism	DB Stern, M Goldschmidt-Cle MR Hanson	61:125–55 ermont,

The Regulation of Gene Expression Required	134 1111 1	
for C <sub>4</sub> Photosynthesis	JM Hibberd, S Covshoff	61:181-207
Insights from the Comparison of Plant		
Genome Sequences	AH Paterson,	61:349-72
	M Freeling, H Tang, X Wang	
Histone Methylation in Higher Plants	C Liu, F Lu, X Cui, X Cao	61:395-420
Mitogen-Activated Protein Kinase Signaling		
in Plants	MC Suarez Rodriguez, M Petersen, J Mundy	61:621–49
Abscisic Acid: Emergence of a Core		
Signaling Network	SR Cutler, PL Rodriguez, RR Finkelstein, SR Abrams	61:651–79
Cell Differentiation		
Signaling to the Actin Cytoskeleton in Plants Cytoskeletal Perspectives on Root Growth	CJ Staiger	51:257-88
and Morphogenesis	PW Barlow, F Baluška	51:289-322
Circadian Rhythms in Plants	CR McClung	52:139-62
Endosperm Development: Cellularization		
and Cell Fate Specification	O-A Olsen	52:233-67
The Plastid Division Machine	KW Osteryoung, RS McAndrew	52:315-33
Cytokinesis and Building of the Cell Plate		
in Plants	DPS Verma	52:751-84
Shoot and Floral Meristem Maintenance		
in Arabidopsis	JC Fletcher	53:45-66
Vascular Tissue Differentiation and Pattern		
Formation in Plants	Z-H Ye	53:183-202
The Plant Cell Cycle	W Dewitte, JAH Murray	54:235-64
How Do Cells Know What They Want To Be		
When They Grow Up? Lessons from		
Epidermal Patterning in Arabidopsis	JC Larkin, ML Brown, J Schiefelbein	54:403-30
Transfer Cells: Cells Specialized for a		
Special Purpose	CE Offler, DW McCurdy, JW Patrick, MJ Talbot	54:431–54
Molecular Mechanisms and Regulation of K <sup>+</sup> Transport in Higher Plants	A-A Véry, H Sentenac	54:575-603
Remodeling the Cytoskeleton for Growth and		
Form: An Overview with Some New Views	GO Wasteneys, ME Galway	54:691-722

Calcium Oxalate in Plants: Formation		
and Function	VR Franceschi,	56:41-71
	PA Nakata	
Solute Transporters of the Plastid		
Envelope Membrane	APM Weber,	56:133-64
	R Schwacke,	
41 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	U-I Flügge	5/ 1/5 05
Abscisic Acid Biosynthesis and Catabolism	E Nambara, A Marion-Poll	56:165-85
Endocytotic Cycling of PM Proteins	AS Murphy,	56:221-51
Endocytotic Cycling of 1 M Proteins	A Bandyopadhyay,	50.221-51
	SE Holstein,	
	WA Peer	
Cytokinesis in Higher Plants	G Jürgens	56:281-99
Shoot Branching	P McSteen, O Leyser	56:353-74
Molecular Genetic Analyses of		
Microsporogenesis and		
Microgametogenesis in Flowering Plants	H Ma	56:393-434
Remembering Winter: Toward a Molecular		
Understanding of Vernalization	S Sung, RM Amasino	56:491-508
New Insights to the Function of		
Phytopathogenic Bacterial Type III	1111	57 500 31
Effectors in Plants	M Mudgett	56:509-31
Control of the Actin Cytoskeleton in Plant Cell Growth	PJ Hussey, T Ketelaar,	57:109-25
Cell Glowth	MI Deeks	31.107-23
Seasonal Control of Tuberization in Potato:		
Conserved Elements with the		
Flowering Response	M Rodríguez-Falcón,	57:151-80
	J Bou, S Prat	
Mechanism of Leaf Shape Determination	H Tsukaya	57:477-96
Protein Degradation Machineries in Plastids	W Sakamoto	57:599-621
Peptide Hormones in Plants	Y Matsubayashi,	57:649-74
	Y Sakagami	
Plastid-to-Nucleus Retrograde Signaling	A Nott, H-S Jung,	57:739-59
	S Koussevitzky,	
Microtubule Dynamics and Organization in	J Chory	
the Plant Cortical Array	DW Ehrhardt,	57:859-75
the Fight Corocar Firey	SL Shaw	271027 72
Leaf Senescence	PO Lim, HJ Kim,	58:115-36
	HG Nam	
The Biology of Arabinogalactan Proteins	GJ Seifert, K Roberts	58:137-61
Stomatal Development	DC Bergmann,	58:163-81
	FD Sack	
The Plant Heterotrimeric G-Protein Complex	BRS Temple,	58:249-66
	AM Jones	
Tracheary Element Differentiation	S Turner, P Gallois,	58:407-33
D	D Brown	FO (7 00
Patterning and Polarity in Seed Plant Shoots	JL Bowman,	59:67-88
	SK Floyd	

A Genetic Regulatory Network in the		
Development of Trichomes and Root Hairs	T Ishida, T Kurata, K Okada, T Wada	59:365–86
Coordinating Nodule Morphogenesis with		
Rhizobial Infection in Legumes	GED Oldroyd, JA Downie	59:519-46
Structural and Signaling Networks for the		
Polar Cell Growth Machinery in		
Pollen Tubes	AY Cheung, H-m Wu	59:547-72
Regulation and Identity of Florigen: Flowering		
Locus T Moves Center Stage	F Turck, F Fornara, G Coupland	59:573–94
Protein Transport into Chloroplasts	H-m Li, C-C Chiu	61:157-80
Guard Cell Signal Transduction Network:		
Advances in Understanding Abscisic Acid,		
CO <sub>2</sub> , and Ca <sup>2+</sup> Signaling	T-H Kim, M Böhmer, H Hu, N Nishimura, JI Schroeder	61:561-91
The Language of Calcium Signalling	AN Dodd, J Kudla, D Sanders	61:593-620
Brassinosteroid Signal Transduction from		
Receptor Kinases to Transcription Factors	T-W Kim, Z-Y Wang	61:681-704
Tissue, Organ, and Whole Plant Events		
Sugar-Induced Signal Transduction in Plants	S Smeekens	51:49-81
Selenium in Higher Plants	N Terry, AM Zayed, MP de Souza,	51:401-32
W CHI III D I DI C I I	AS Tarun	
How Gibberellin Regulates Plant Growth and		
Development: A Molecular Genetic Analysis of Gibberellin Signaling	DE Richards,	52:67-88
Analysis of Globerellin Signating	KE King,	32:07-00
	T Ait-ali,	
	NP Harberd	
Function and Mechanism of Organic Anion		
Exudation from Plant Roots	PR Ryan, E Delhaize, DL Jones	52:527-60
Defensive Resin Biosynthesis in Conifers	S Trapp, R Croteau	52:689-724
Molecular Biology of Fruit Maturation	**	
and Ripening	J Giovannoni	52:725-49
The Cohesion-Tension Mechanism and the		
Acquisition of Water by Plant Roots	E Steudle	52:847-75
Abscission, Dehiscence, and Other Cell		
Separation Processes	JA Roberts, KA Elliott,	53:131–58
PI 11.	ZH Gonzalez-Carra	nza
Phytochelatins and Metallothioneins:		
Roles in Heavy Metal Detoxification	C Cabban	53:159-82
and Homeostasis	C Cobbett, P Goldsbrough	33:139-82

Local and Long-Range Signaling Pathways		
Regulating Plant Responses to Nitrate Acclimative Response to Temperature Stress in	BG Forde	53:203-24
Higher Plants: Approaches of Gene		
Engineering for Temperature Tolerance Salt and Drought Stress Signal Transduction	K Iba	53:225-45
in Plants Plant Responses to Insect Herbivory: The	J-K Zhu	53:247-73
Emerging Molecular Analysis Phytochromes Control Photomorphogenesis	A Kessler, IT Baldwin	53:299–328
by Differentially Regulated, Interacting Signaling Pathways in Higher Plants Root Gravitropism: An Experimental Tool to Investigate Basic Cellular and Molecular Processes Underlying Mechanosensing and	F Nagy, E Schäfer	53:329–55
Signal Transmission in Plants	K Boonsirichai, C Guan, R Chen, PH Masson	53:421-47
Understanding the Functions of Plant Disease		
Resistance Proteins	GB Martin, AJ Bogdanove, G Sessa	54:23-61
Protein Phosphatases in Plants	S Luan	54:63-92
Nitric Oxide: The Versatility of an Extensive		
Signal Molecule	L Lamattina, C García-Mata, M Graziano, G Pagnussat	54:109-36
Phospholipid-Based Signaling in Plants	HJG Meijer, T Munnik	54:265-306
Gibberellins and Flowering of Grasses and		
Cereals: Prizing Open the Lid of the		
"Florigen" Black Box	RW King, LT Evans	54:307-28
Cryptochrome Structure and Signal		
Transduction	C Lin, D Shalitin	54:469-96
Perception and Signal Transduction of	CENTER IN	F4 (OF 38
Cytokinins Symbioses of Grasses with Seedborne Fungal	T Kakimoto	54:605–27
Endophytes	CL Schardl, A Leuchtmann, MJ Spiering	55:315-40
Reactive Oxygen Species: Metabolism,	my opicing	
Oxidative Stress, and Signal Transduction	K Apel, H Hirt	55:373-99
Integrative Plant Biology: Role of Phloem Long-Distance Macromolecular	1	
Trafficking	TJ Lough, WJ Lucas	57:203-32
The Role of Root Exudates in Rhizosphere		
Interactions with Plants and Other		
Organisms	HP Bais, TL Weir, LG Perry, S Gilroy, JM Vivanco	57:233-66

Y and The describes	I Cook NIM Holbrook	57.261 01
Leaf Hydraulics Sugar Sensing and Signaling in Plants:	L Sack, NM Holbrook	57:361-81
Conserved and Novel Mechanisms	F Rolland, E Baena-Gonzalez, J Sheen	57:675-709
Hidden Branches: Developments in Root		
System Architecture	KS Osmont, R Sibout, CS Hardtke	58:93-113
Light Regulation of Stomatal Movement	K-i Shimazaki, M Doi, SM Assmann, T Kinoshita	58:219-47
New Insights into Nitric Oxide Signaling		
in Plants	A Besson-Bard, A Pugin, D Wendehenne	59:21-39
Plant Immunity to Insect Herbivores	GA Howe, G Jander	59:41-66
Molecular Basis of Plant Architecture	Y Wang, J Li	59:253-79
Molecular Aspects of Seed Dormancy	R Finkelstein, W Reeves, T Ariizumi, C Steber	59:387-415
Plant Aquaporins: Membrane Channels with		
Multiple Integrated Functions	C Maurel, L Verdoucq, D-T Luu, V Santoni	59:595–624
Mechanisms of Salinity Tolerance	R Munns, M Tester	59:651-81
Ionomics and the Study of the Plant Ionome	DE Salt, I Baxter, B Lahner	59:709-33
The HSP90-SGT1 Chaperone Complex for		
NLR Immune Sensors	K Shirasu	60:139-64
Phloem Transport: Cellular Pathways and		
Molecular Trafficking	R Turgeon, S Wolf	60:207–21
Aquilegia: A New Model for Plant		
Development, Ecology, and Evolution Environmental Effects on Spatial and Temporal Patterns of Leaf and	EM Kramer	60:261-77
Root Growth	A Walter, WK Silk, U Schurr	60:279-304
The Circadian System in Higher Plants	SL Harmer	60:357-77
A Renaissance of Elicitors: Perception of Microbe-Associated Molecular Patterns and Danger Signals by		
Pattern-Recognition Receptors Computational Morphodynamics: A Modeling	T Boller, G Felix	60:379-406
Framework to Understand Plant Growth	V Chickarmane, AHK Roeder, PT Tarr, A Cunha, C Tobin, EM Meyerowitz	61:65-87

Female Gametophyte Development in		
Flowering Plants	W-C Yang, D-Q Shi, Y-H Chen	61:89–108
Improving Photosynthetic Efficiency		
for Greater Yield	X-G Zhu, SP Long, DR Ort	61.235-61
Evolution in Action: Plants Resistant		
to Herbicides	SB Powles, Q Yu	61:317-47
Genetic and Molecular Basis of Rice Yield Directional Gravity Sensing in Gravitropism	Y Xing, Q Zhang MT Morita	61:421–42 61:705–20
Acclimation and Adaptation		
Macronutrient Utilization by Photosynthetic		
Eukaryotes and the Fabric of Interactions	A Grossman, H Takahashi	52:163-210
Variations in the Biosynthesis		
of Seed-Storage Lipids	T Voelker, AJ Kinney	52:335-61
Revealing the Molecular Secrets of Marine		
Diatoms	A Falciatore, C Bowler	53:109-30
Iron Transport and Signaling in Plants	C Curie, J-F Briat	54:183-206
Photosynthesis of Overwintering		
Evergreen Plants	G Öquist, NPA Huner	54:329-55
Chloroplast Movement	M Wada, T Kagawa, Y Sato	54:455-68
How Do Crop Plants Tolerate Acid Soils? Mechanisms of Aluminum Tolerance and		
Phosphorous Efficiency	L Kochian, OA Hoekenga, MA Piñeros	55:459–93
Genetical Regulation of Time to Flower in		
Arabidopsis Thaliana	Y Komeda	55:521-35
Rising Atmospheric Carbon Dioxide: Plants		
FACE the Future	SP Long, EA Ainsworth, A Rogers, DR Ort	55:557–94
Phytoremediation	E Pilon-Smits	56:15-39
CO <sub>2</sub> Concentrating Mechanisms in Algae: Mechanisms, Environmental Modulation,		
and Evolution	M Giordano, J Beardall, JA Raven	56:99–131
Responding to Color: The Regulation of		
Complementary Chromatic Adaptation	DM Kehoe, A Gutu	57:127-50
Plant Uncoupling Mitochondrial Proteins	AE Vercesi, J Borecky, I de Godoy Maia, P Arruda, IM Cuccovia, H Chaimovich	57:383-404

Transcriptional Regulatory Networks in		
Cellular Responses and Tolerance to		
Dehydration and Cold Stresses	K Yamaguchi-Shinozaki, K Shinozaki	57:781–803
Algal Sensory Photoreceptors	P Hegemann	59:167-89
Flooding Stress: Accilimations and		
Genetic Diversity	J Bailey-Serres, LACJ Voesenek	59:313-39
Roots, Nitrogen Transformations, and		
Ecosystem Services	LE Jackson, M Burger, TR Cavagnaro	59:341-63
Sensing and Responding to Excess Light	Z Li, S Wakao, BB Fischer, KK Niyogi	60:239-60
Signal Transduction in Responses		
to UV-B Radiation	GI Jenkins	60:407-31
The Role of Hybridization in Plant Speciation	PS Soltis, DE Soltis	60:561-88
Arsenic as a Food Chain Contaminant: Mechanisms of Plant Uptake and		
Metabolism and Mitigation Strategies	F-J Zhao, SP McGrath, AA Meharg	61:535-59
Doomed Lovers: Mechanisms of Isolation		
and Incompatibility in Plants	K Bomblies	61:109-24
Genetic Engineering for Modern Agriculture: Challenges and Perspectives	R Mittler,	61:443-62
	E Blumwald	
Metal Hyperaccumulation in Plants	U Krämer	61:517-34
Methods		
Probing Plant Metabolism with NMR	RG Ratcliffe, Y Shachar-Hill	52:499–526
Single-Nucleotide Mutations for Plant		
Functional Genomics	S Henikoff, L Comai	54:375-401
Metabolomics in Systems Biology VIGS Vectors for Gene Silencing: Many	W Weckwerth	54:669-89
Targets, Many Tools	D Robertson	55:495-519
Protein Splicing Elements and Plants: From Transgene Containment		
to Protein Purification	TC Evans Jr, M-Q Xu, S Pradhan	56:375–92
Quantitative Fluorescence Microscopy:		
From Art to Science	M Fricker, J Runions, I Moore	57:79-107
Laser Microdissection of Plant Tissue: What		
You See Is What You Get	T Nelson, SL Tausta, N Gandotra, T Liu	57:181-201

Bioinformatics and Its Applications		
in Plant Biology	SY Rhee, J Dickerson, D Xu	57:335-59
Global Studies of Cell Type-Specific Gene		
Expression in Plants	DW Galbraith, K Birnbaum	57:451-75
Populus: A Model System for Plant Biology	S Jansson, CJ Douglas	58:435-58
Chlorophyll Fluorescence: A Probe of		
Photosynthesis In Vivo	NR Baker	59:89-113
Metabolic Flux Analysis in Plants: From		
Intelligent Design to Rational Engineering	IGL Libourel,	59:625-50
	Y Shachar-Hill	
Short-Read Sequencing Technologies for		
Transcriptional Analyses	SA Simon, J Zhai,	60:305-33
	RS Nandety,	
	KP McCormick,	
	J Zeng, D Mejia,	
	BC Meyers	
High-Throughput Characterization of Plant		
Gene Functions by Using		
Gain-of-Function Technology	Y Kondou, M Higuchi,	61:373–93
	M Matsui	
Metabolomics for Functional Genomics,		
Systems Biology, and Biotechnology	K Saito, F Matsuda	61:463-89
Quantitation in Mass-Spectrometry-Based		
Proteomics	WX Schulze, B Usadel	61:491-51

